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SOURCE Veterinariya, No 5, 1947, (FDB Per Abs 1718).RESULTS OF USING "STI" ANTHRAX VACCINE DURING 1944 - 1946

(From local surveys)

I. F. Kopylov, Cand Med Sci
W. N. Ginsburg, Prof
Soviet Army Sci Res Inst of
Epidemiology and Hygiene

Data was collected from 1,164 rayons of 106 krayes and oblasts of the autonomous
and union republics of the USSR.

Table 1. Results of Using "STI" Anthrax Vaccine in Animal Husbandry

Year	No of Rayons in Survey	Horses	Large Horned Cattle	Animals Vaccinated with "STI"					Other Animals	Total
				Sheep	Goats	Pigs	Camels	Deer		
1944	346	120,744	573,430	715,054	21,453	8,516	986	99,892	50	1,540,125
1945	666	228,797	1,025,380	1,511,526	53,285	25,960	2,179	251,737	1,024	3,099,888
1946	152	36,052	136,965	102,672	12,014	3,232	53	---	547	291,536
Total	1,164	385,593	1,735,775	2,329,253	86,752	37,708	3,218	351,629	1,621	4,931,549

During the above test period "STI" vaccine was extensively used, not only for
prophylactic but also for compulsory anthrax vaccinations (202 rayons).

Complications following vaccination with "STI" vaccine were recorded in 102 points
of 44 oblasts of the Union.

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Table 2. Complications Among Vaccinated Farm Animals 1944 - 1946

Type of Animal	Total Vaccinated	Complications	Dead	Percentage of Vaccinated Animals Dead
Horses	385,593	117	10	0.0028
Large Horned Cattle	1,735,775	105	6	0.000034
Sheep	2,329,253	1,126	372	0.0159
Goats	86,752	171	73	0.0842
		1,519	461	

The post-vaccination failures with "STI" vaccine during the above test period was lower than for 1942 - 1944 for all types of farm animals except goats. The failure was 0.008 percent for horses, 0.0014 percent for large horned cattle, 0.026 percent for sheep and 0.064 percent for goats.

As in previous years, compulsory vaccination produced a relatively greater number of post-vaccination complications.

The number of post-vaccination complications as compared with the number of animals vaccinated during the above test period indicated an annual decrease (see Table 3). This is due to a considerable extent to the fact that the practical workers became more experienced with the use of "STI" vaccine.

Table 3. Complications in Prophylactic and Compulsory Vaccinations by Years

Type of Animal	No of Animals Vaccinated in 1944 - 1946	Complications				Complications in Compulsory Vaccinations		
		1944	1945	1946	Total	1944	1945	1946
Horses	385,593	32/1	80/9	5/0	117/10	26/1	9/0	-
Large Horned Cattle	1,735,775	11/2	93/3	1/1	105/6	2/2	48/1	1/1
Sheep	2,329,253	504/159	622/213	- 1	126/372	340/95	493/155	-
Goats	86,752	79/38	92/35	-	171/73	9/9	114/44	-
		626/200	887/260	5/1	1,519/461	377/107	666/200	1/1

NOTE: The numerator denotes the number of animals with complications; the denominator, the number that died.

Local data shows that technical errors in administering vaccinations, compulsory vaccination of diseased animals during their incubation period, and vaccination of physically unfit animals, mainly sheep, are among the causes of complications, as in 1942 - 1944.

The following figures were recorded for anthrax outbreaks among vaccinated herds of all types of farm animals: 1944 -- 1 head of large horned cattle (3 months after vaccination); 1945 -- 4 horses (3 and 5 months after vaccination), 6 head of large horned cattle (3 and 8 months after vaccination), 5 sheep and 2 goats (6 months after vaccination), 1 camel (2 months after vaccination); 1946 -- 3 head of large horned cattle (1, 3 and 4 months after vaccination); in all, 32 cases, 15 of which have been authenticated (from local material).

The effect of compulsory vaccinations was satisfactory in all cases.

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Out of 456 reports on "STI" vaccine sent by local practical veterinary workers, 386 were excellent and good and 20 satisfactory. Forty-nine refrained from assessing the value due to paucity of data and brevity of observations and there was one negative report.

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